SHEET - LOOPS

Q1 -write a C program to calculate some of first (n) natural numbers (1,2,3,...., n) using loops (done)

Test Data:

Input the number: 5

Expected Output:

Summing: 15

Q2 - write a C program to print "welcome to embedded system" using for loop by two methods

Q3 -display n terms and of the odd natural number and their sum

Test Data:

Input the number of terms: 10

Expected Output:

Odd terms: 1 3 5 7 9 11 13 15 17 19

The sum of odd terms: 100

Q4 Write a program in C to add positive integer numbers if the user enter the negative number break ,then display the sum of all positive integer numbers only.

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Test Data: Input number = 2 Input number = 4 Input number = -1 Exit from loop **Expected Output:** Sum = 6. Q5- Write a program in C to calculate the positive of N numbers and skipped the negative numbers by continue statement.(done)

Test Data: Input a counter =4 Input number = 1 Input number = -1 Plz enter the positive value Input number = -2 Plz enter the positive value Input number = 3 **Expected Output:**

Sum = 4

Q6 - Write a program in C to find the factorial of a given number using for loop.

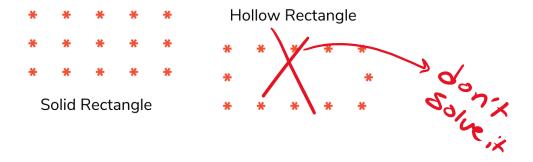
Test Data:

Input a number: 5

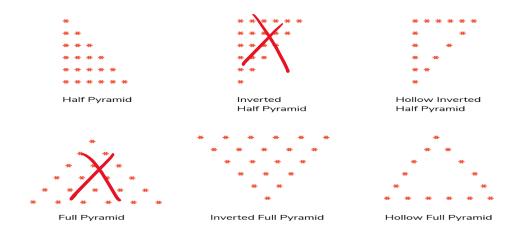
Expected Output:

The Factorial of 5 is: 120

Q7 – Write a program C to print a solid and hollow rectangle using stars



Q8: Write a program C using stars To print the Pyramid patterns shown below



Q9: Write a program in C to display the sum of the series [9 + 99 + 999 + 9999 ...].

Test Data:

Input the number or terms:5

Expected Output:

9 99 999 9999 99999

The sum of the series = 111105

Q10: Write a C program that displays the n terms of square natural numbers and their sum.

1 4 9 16 ... n Terms

Test Data:

Input the number of terms: 5

Expected Output:

The square natural up to 5 terms are :1 4 9 16 25

The Sum of Square Natural Number up to 5 terms = 55